### **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/581,041
Source:	TFWP
Date Processed by STIC:	06/21/2006
	7 7

## ENTERED

#### CRF Errors Edited by the STIC Systems Branch

Serial	Number: 10/581, 041	CRF Edit Date:	06/21/2006 A
	Realigned nucleic acid/amino acid numbers/tex text "wrapped" to the next line	t in cases where the	e sequence
	Corrected the SEQ ID NO. Sequence numbers	edited were:	
	Inserted or corrected a nucleic number at the e NO's edited:	nd of a nucleic line.	SEQ ID
/	Deleted: invalid beginning/end-of-file text	; page numbers	
	Inserted mandatory headings/numeric identifie	rs, specifically:	
	Moved responses to same line as heading/nume	ric identifier, specif	ically:
	Other:		
			<del></del>

Revised 09/09/2003



**IFWP** 

RAW SEQUENCE LISTING DATE: 06/21/2006
PATENT APPLICATION: US/10/581,041 TIME: 13:40:09

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\06212006\J581041.raw

```
4 <110> APPLICANT: CHAE, Young-Jin
             CHOI, Eun-Wha
      7 <120> TITLE OF INVENTION: Recombinant peptide vector comprising the gene for treatment
for
              autoimmune diseases
     10 <130> FILE REFERENCE: OP04-1086
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/581,041
C--> 12 <141> CURRENT FILING DATE: 2006-05-30
     12 <160> NUMBER OF SEQ ID NOS: 23
     14 <170> SOFTWARE: Kopatentin 1.71
     16 <210> SEQ ID NO: 1
     17 <211> LENGTH: 20
     18 <212> TYPE: DNA
     19 <213> ORGANISM: Artificial Sequence
     21 <220> FEATURE:
     22 <223> OTHER INFORMATION: primer
     25 <400> SEQUENCE: 1
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     30 <211> LENGTH: 20
     31 <212> TYPE: DNA
     32 <213> ORGANISM: Artificial Sequence
     34 <220> FEATURE:
     35 <223> OTHER INFORMATION: primer
     38 <400> SEQUENCE: 2
     39 ttgaaattgc ctcagctcct
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     42 <210> SEQ ID NO: 3
     43 <211> LENGTH: 20
     44 <212> TYPE: DNA
     45 <213> ORGANISM: Artificial Sequence
     47 <220> FEATURE:
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     51 <400> SEQUENCE: 3
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                                                                                    20
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     56 <211> LENGTH: 20
     57 <212> TYPE: DNA
     58 <213> ORGANISM: Artificial Sequence
     60 <220> FEATURE:
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     64 <400> SEQUENCE: 4
     65 gtagcagatg ccgtccacct
                                                                                    20
     68 <210> SEQ ID NO: 5
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69 <211> LENGTH: 66

Input Set : A:\pto.da.txt

		7
70 <212> TYPE: DNA		ľ
71 <213> ORGANISM: Artificial Sequence		Ī
73 <220> FEATURE:		ľ
74 <223 > OTHER INFORMATION: primer		Ī
77 <400> SEQUENCE: 5	<b>C</b> 0	Ī
78 ctcagtctgg tccttgcact cctgtttcca agcatggcga gcatgtccaa agggatgcat		Ī
30 gtggct	66 `	Ī
83 <210> SEQ ID NO: 6		Ī
84 <211> LENGTH: 27 85 <212> TYPE: DNA		Ī
86 <213> ORGANISM: Artificial Sequence 88 <220> FEATURE:		
88 <220> FEATURE: 89 <223> OTHER INFORMATION: primer		
92 <400> SEQUENCE: 6		
	27	
93 gaattcgtca gaatctgggc aaggttc 96 <210> SEQ ID NO: 7	۷ /	•
96 <210> SEQ 1D NO: 7 97 <211> LENGTH: 61		
OR 2010 TVDE. DNA		•
98 <212> TYPE: DNA 99 <212> ORGANISM: Artificial Sequence	in para innar	يجتهز ديد خشديه الد
101 <220> FEATURE:		· •
101 <220> FEATORE: 102 <223> OTHER INFORMATION: primer		Ī
102 <2235 OTHER INFORMATION: primer 105 <400> SEQUENCE: 7		
105 (400) SEQUENCE: / 106 aagetteace atgggtgtae tgeteacaea gaggaegetg eteagtetgg teettgeact	60	
108 c	61	
111 <210> SEQ ID NO: 8	<b>~</b>	
112 <211> LENGTH: 27		
113 <212> TYPE: DNA		
114 <213> ORGANISM: Artificial Sequence		
116 <220> FEATURE:		
117 <223> OTHER INFORMATION: primer		
120 <400> SEQUENCE: 8		
121 gaattegata acagteatee gteteat	27	
124 <210> SEQ ID NO: 9		
125 <211> LENGTH: 24		
126 <212> TYPE: DNA		
127 <213> ORGANISM: Artificial Sequence		
129 <220> FEATURE:		
130 <223> OTHER INFORMATION: primer		
133 <400> SEQUENCE: 9		
134 tctagagtag cagatgccgt ccac	24	
137 <210> SEQ ID NO: 10		
138 <211> LENGTH: 21		
139 <212> TYPE: DNA		
140 <213> ORGANISM: Artificial Sequence		
142 <220> FEATURE:		
143 <223> OTHER INFORMATION: primer		
146 <400> SEQUENCE: 10		
147 gccagatata cgcgttgaca t	21	
150 <210> SEQ ID NO: 11		
		7

Input Set : A:\pto.da.txt

<211> LENGTH						
<212> TYPE:						
<213> ORGANI		cial Sequer.	ice			
 <220> FEATUR						
<223> OTHER		N: primer				
<400> SEQUEN						
gcttaatgcg c	_	3 N. S. S. S. S. S.	**		18	
<210> SEQ II						
<211> LENGTH						
<212> TYPE:						
<213> ORGANI		.cıal Sequer	ice			
 <220> FEATUR		N				
<223> OTHER		n: tnerape	itic gene			
<400> SEQUEN				 	60	
gttgacattg a					60 120	
gcccatatat g					180	
ccaacgaccc c	_	_			240	
ggactttcca t					30	وريق الأرارا
atcaagtgta t					360	•
cctggcatta t		_			420	
tattagtcat c					480	
agcggtttga c					540	
tttggcacca a					600	
aaatgggcgg t gagaacccac t					660	
ctggctagcg t					720	
tcagtctggt c					780	
tggctcagcc t					840	
atgggtcttc a					900	
agatgactga a					960	
attctacctg c					1020	
gggccatgga c					1080	
atgtaggcat g					1140	
ctgacgaatt c					1200	
tgtcactaca g					1260	
gcacactgag t					1320	
ggaaggaacc c					1380	
gtgtcctacc a					1440	
cccaccctga a					1500	
cgccccaggt c					1560	
cactgacgtg c					1620	
ggacccagga g			-		1680	
agaccaacat g					1740	
gggagaagtt d					1800	
ccatcgaccg c					1860	
tggacggcat c					1920	
tgccttctag t					1980	
aaggtgccac t					2040	
gtaggtgtca t					2100	
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Input Set : A:\pto.da.txt

243 aagacaatag caggcatgct ggggatgcgg tgggctctat ggcttctgag gcggaaagaa 245 ccagctgggg ctctaggggg tatccccacg cgccctgtag cggcgcatta agc 248 <210> SEQ ID NO: 13	2160 2213
248 <210> SEQ 1D NO: 13 249 <211> LENGTH: 20	
250 <212> TYPE: DNA	
251 <213> ORGANISM: Artificial Sequence	
253 <220> FEATURE:	*
254 <223> OTHER INFORMATION: primer	
257 <400> SEQUENCE: 13	
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261 <210> SEQ ID NO: 14	
262 <211> LENGTH: 21	
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264 <213> ORGANISM: Artificial Sequence	
266 <220> FEATURE: 267 <223> OTHER INFORMATION: primer	
270 <400> SEQUENCE: 14	
	21
271 gttagaattg cctcagctct t 274 <210> SEQ_ID_NO: 15	The Market of the same of
275 <211> LENGTH: 23	
276 <212> TYPE: DNA	
277 <213> ORGANISM: Artificial Sequence	
279 <220> FEATURE:	
280 <223> OTHER INFORMATION: primer	
283 <400> SEQUENCE: 15	
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288 <211> LENGTH: 20	
289 <212> TYPE: DNA	
290 <213> ORGANISM: Artificial Sequence 292 <220> FEATURE:	
293 <223> OTHER INFORMATION: primer	
296 <400> SEQUENCE: 16	
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300 <210> SEQ ID NO: 17	
301 <211> LENGTH: 65	
302 <212> TYPE: DNA	
303 <213> ORGANISM: Artificial Sequence	
305 <220> FEATURE:	
306 <223> OTHER INFORMATION: primer	
309 <400> SEQUENCE: 17	
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312 cagcc	65
315 <210> SEQ ID NO: 18 316 <211> LENGTH: 66	
316 <211> LENGIH: 66 317 <212> TYPE: DNA	
317 <212> TYPE: DNA 318 <213> ORGANISM: Artificial Sequence	
320 <220> FEATURE:	
321 <223> OTHER INFORMATION: primer	
The state of the s	

Input Set : A:\pto.da.txt

	<400> SEQUENCE: 18					50
	gaattcgagc ccaaatc	ette tgacaaaact	cacacatccc	caccgtcccc	agcacctgaa	60
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	<210> SEQ ID NO: 1	L9				
	<211> LENGTH: 31					
	<212> TYPE: DNA					
•	<213> ORGANISM: An	rtificial Seque	nce			e a Company
	<220> FEATURE:					
	<223> OTHER INFORM	<del>-</del>				
	<400> SEQUENCE: 19					
	tctagaagca tcctcgt		С			31
	<210> SEQ ID NO: 2					
-	<211> LENGTH: 2446	5				
	<212> TYPE: DNA					
	<213> ORGANISM: A	rtificial Seque	nce			
	<220> FEATURE:					
	<223> OTHER INFORM		utic gene			
	<400> SEQUENCE: 20	• •				##
	gttgacattg attattg					60
	gcccatatat ggagtto					120
	ccaacgaccc ccgccca					180
	ggactttcca ttgacgt					240
	atcaagtgta tcatate					300
	cctggcatta tgcccag					360
	tattagtcat cgctatt					420
	agcggtttga ctcacgg					480
	tttggcacca aaatcaa					540
	aaatgggcgg taggcgt					600
	gagaacccac tgcttac					660
	ctggctagcg tttaaac					720
	tcagtctggt ccttgca					780
	agcetgetgt ggtaetg					840
	ctccaggcaa agccact					900
	ctgaagtctg tgcggc					960
	tctgcacggg cacctc					1020
	tggacacggg actctac					1080
	gcataggcaa cggaac					. 1140
	aattcgagcc caaatc					1200
	cccaggcctc gccctc					1260
	gacaggcccc agccggg					1320
	ctggggggac cgtcagt					1380
	cggacccctg aggtca					1440
	ttcaactggt acgtgg					1500
	cagtacaaca gcacgta					1560
405	aatggcaagg agtacaa	agtg caaggtctcc	aacaaagccc	tcccagcccc	catcgagaaa	1620
	accatctcca aagcca					1680
409	gctcggccca ccctctg	gccc tgagagtgac	cgctgtacca	acctctgtcc	tacagggcag	1740
	ccccgagaac cacaggi					1800
413	gtcagcctga cctgcct	tggt caaaggcttc	tatcccagcg	acatcgccgt	ggagtgggag	1860

VERIFICATION SUMMARY

DATE: 06/21/2006

PATENT APPLICATION: US/10/581,041

TIME: 13:40:11

Andrew St.

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Input Set : A:\pto.da.txt

Output Set: N:\CRF4\06212006\J581041.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

# Raw Sequence Listing before editing (for reference only)

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**IFWP** 

RAW SEQUENCE LISTING

DATE: 06/19/2006

PATENT APPLICATION: US/10/581,041

TIME: 11:22:13

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF4\06192006\J581041.raw

4 <110> APPLICANT: CHAE, Young-Jin

5 CHOI, Eun-Wha

7 <120> TITLE OF INVENTION: Recombinant peptide vector comprising the gene for treatment

for

8 autoimmune diseases

10 <130> FILE REFERENCE: OP04-1086

C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/581,041

C--> 12 <141> CURRENT FILING DATE: 2006-05-30

12 <160> NUMBER OF SEQ ID NOS: 23

14 <170> SOFTWARE: KopatentIn 1.71

Does Not Comply
Corrected Diskette Needed ...

Cpg-1)

#### ERRORED SEQUENCES

468 <210> SEQ ID NO: 23

469 <211> LENGTH: 16

470 <212> TYPE: DNA

471 <213> ORGANISM: Artificial Sequence

473 <220> FEATURE:

11

474 <223> OTHER INFORMATION: Linker-2 DNA

477 <400> SEQUENCE: 23

478 gattatgctg agtgat

E--> 481

16

VERIFICATION SUMMARYDATE: 06/19/2006PATENT APPLICATION:US/10/581,041TIME: 11:22:14

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF4\06192006\J581041.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:481 M:254 E: No. of Bases conflict, this line has no nucleotides.